

COSPAR Panel on Space Weather Resolution on Metadata Standards

Accepted at COSPAR Panel on Space Weather (PSW) Business Meeting on 18 July 2018 (revised 6 December 2018; updated 15 October 2021)

Taking into account that:

1. It is in the general interest of the international space physics and space weather community that data be made as widely accessible as possible,
2. The open exchange of data benefits from accurate, complete, and standardized metadata,
3. The ILWS-COSPAR Roadmap recommends to standardize metadata and harmonize access to data and model archives,
4. There are a variety of metadata standards, few of which meet the full needs of the community to document and enable discovery of available diverse data,
5. The SPASE (Space Physics Archive Search and Extract) metadata standard has demonstrated that it is comprehensive and mature and can meet the needs of the community, and
6. That sufficiently detailed metadata enhances data access and discovery by applications and through services like HAPI (Heliophysics Application Programmer's Interface) as well as bulk downloads,

The COSPAR PSW resolves that there is a need for a common metadata standard to facilitate and enhance international access to data acquired by space- and ground-based instruments.

Therefore, it is recommended that:

1. SPASE (<https://doi.org/10.48322/E72C-5Y75>) along with its simulations extensions (<https://doi.org/10.48322/TXC A-X050>) be the metadata standards to describe space physics and space weather resources.
2. Funding agencies provide encouragement and adequate support to enable data

produced by projects to be described with SPASE metadata.

COSPAR Panel on Space Weather Resolution on Data Access

Accepted at COSPAR PSW Business Meeting on 18 July 2018 (updated 15 October 2021).

Taking into account that:

1. It is in the general interest of the international heliophysics and space weather community that data be made as widely accessible as possible,
2. The open exchange of data benefits from well-defined and standardized methods of access,
3. The ILWS-COSPAR Roadmap has recommended to standardize metadata and harmonize access to data and model archives, and
4. The Heliophysics Application Programmer's Interface (HAPI) specification has demonstrated that it is comprehensive and can meet the needs of the community,

The COSPAR PSW resolves that there is a need for at least one common data access API to facilitate and enhance international access to data.

Therefore, it is recommended that:

1. HAPI (<https://doi.org/10.5281/zenodo.4757597>) be the common data access API for space science and space weather data.
2. Funding agencies provide encouragement and adequate support to enable data produced by projects to be accessed by using HAPI compliant services.

COSPAR Constellation of Small Spacecraft: Implementation Phase

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